

Appln No. 09/550,757

Amdt date April 27, 2004

Reply to Office action of January 14, 2004

REMARKS/ARGUMENTS

Claims 30-36, 38-46, 48-49, and 60-67 are pending. Claims 30, 40, and 60 are amended and claims 37, 47, 50-59, and 68-97 are cancelled.

The disclosure is objected to because of an informality. The disclosure is amended to correct the typographical error. Therefore, it is respectfully requested that the above-mentioned objection be withdrawn.

Claims 30-32, 36, 37, 40-42, 46, 47, 50-52, 56, 57, 68-70, 74, 75, 86-88, 92, 93, 97 are rejected under 35 U.S.C. 102(e) as being anticipated by Langberg et al (U.S. Patent 6,243,425). Claims 33-35, 38, 39, 43-45, 48, 49, 53-55, 58-67, 71-73, 76-85, 89-91 and 95 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langberg. Applicants submit that all of the claims currently pending in this application are patentably distinguishable over the cited references, and reconsideration and allowance of this application are respectfully requested.

Independent claims 30, 40, and 60, include among other limitations, "wherein the at least one decision feedback filter tap coefficient is clamped," "wherein after the ramped coefficient have been ramped to approximately its full value, the decision feedback filter is configured to provide additional feedback filtering," and "an output port coupled to a transmission channel and configured to communicate information representative of the ramped output to a precoder via the transmission channel."

Langberg describes an adaptive precoding system for a communication channel. The specification states: "During the

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communications phase, changes in the channel 12 cause a degradation in communication quality. In response, ISI filter 64 begins to increase its equalizer coefficient values. Periodically, receiver 16 transmits the equalizer coefficient values of ISI filter 64 to transmitter 15 across secondary channel 119. Since the equalizer coefficients are not continuously transmitted, secondary channel 119 may be configured as a low speed channel. converter 130 (FIG. 6) determines an updated set of precoder values based on the equalizer coefficient values and the current precoder values. In order to enable the ISI filter 64 to track the changes, converter 130 slowly updates the precoder values." (Col. 5, line 66 to col. 6, line 11).

Therefore, the converter of Langberg is located in the transmitter side and receives the filter coefficient via the transmission channel. Thus Langberg does not disclose the above-quoted limitation of "an output port coupled to a transmission channel and configured to communicate information representative of the ramped output to a precoder via the transmission channel." Furthermore, Langberg does not disclose the above-quoted limitations of "wherein the at least one decision feedback filter tap coefficient is clamped," and "wherein after the ramped coefficient have been ramped to approximately its full value, the decision feedback filter is configured to provide additional feedback filtering." As a result, the independent claims 30, 40, and 60 are not anticipated by Langberg.

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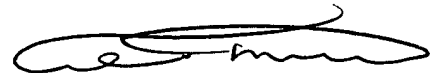
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In short, the independent claims 30, 40, and 60 define a novel and unobvious invention over the cited reference. Dependent claims 31-36, 38-39, 41-46, 48-49, and 61-67 are all dependent from claims 30, 40, and 60, respectively and therefore include all the limitations of their respective independent claims and additional limitations therein. Accordingly, these claims are also allowable over the cited references, as being dependent from allowable independent claims and for the additional limitations they include therein.

In view of the foregoing remarks, it is respectfully submitted that this application is now in condition for allowance, and accordingly, reconsideration and allowance are respectfully requested.

Respectfully submitted,
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